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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Applications of computer graphics to the visualization of meteorological data](#)

T. V. Papathomas, J. A. Schiavone, B. Julesz

June 1988 **ACM SIGGRAPH Computer Graphics , Proceedings of the 15th annual****conference on Computer graphics and interactive techniques**, Volume 22 Issue 4Full text available: [pdf\(3.39 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The need to visualize huge amounts of numerical data is exemplified in the field of meteorology, where measurements of many atmospheric parameters are routinely taken over large geographical areas for the purpose of monitoring and predicting weather. Computer graphics has provided and will continue to offer powerful tools to meet this visualization challenge, principally in three areas: first, efficient graphics algorithms for displaying the data; second, novel special-purpose graphics hardware; ...

**Keywords:** animation, atmospheric phenomena, clouds, display techniques, fog, image processing, interactive workstations, modelling, motion, perception, stereo, weather forecasting

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Relevance scale ☐ ☐ ☐ ☐ ☐

# 1 [Dynamic generation of data broadcasting programs for a broadcast disk array in a mobile computing environment](#)

Wen-Chih Peng, Ming-Syan Chen

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**Full text available: [pdf\(365.06 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
**Keywords:** broadcast disks, broadcast programs, mobile computing, multiple broadcast channels

# 2 [Session C: New issues: An architecture for building self-configurable systems](#)

Lakshminarayanan Subramanian, Randy H. Katz

November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**Full text available: [pdf\(934.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Developing wireless sensor networks can enable information gathering, information processing and reliable monitoring of a variety of environments for both civil and military applications. It is however necessary to agree upon a basic architecture for building sensor network applications. This paper presents a general classification of sensor network applications based on their network configurations and discusses some of their architectural requirements. We propose a generic architecture for a s ...

# 3 [Limited vision: the techno-political war to control the future of digital mass media](#)

Craig Birkmaier

August 1997 **netWorker**, Volume 1 Issue 2Full text available: [pdf\(623.50 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

# 4 [Cache invalidation scheme for mobile computing systems with real-time data](#)

Joe Chun-Hung Yuen, Edward Chan, Kam-Yiu Lam, H. W. Leung

December 2000 **ACM SIGMOD Record**, Volume 29 Issue 4Full text available: [pdf\(552.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


In this paper, we propose a cache invalidation scheme called Invalidation by Absolute Validity Interval (IAVI) for mobile computing systems. In IAVI, we define an absolute validity interval (AVI), for each data item based on its dynamic property such as the update interval.

A mobile client can verify the validity of a cached item by comparing the last update time and its AVI. A cached item is invalidated if the current time is greater than the last update time plus its AVI. With this self-invali ...

5 Supporting personal mobility for nomadic computing over the internet

Yalun Li, Victor C. M. Leung

April 1997 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 1 Issue 1

Full text available:  pdf (1.42 MB)


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This paper presents a new paradigm for nomadic computing over the Internet called universal personal computing (UPC), where mobile users can access computing resources, network services, and personalized computing environments anywhere using any available terminals. The concept of UPC and system design issues are discussed, and the required system architecture capable of managing different mobile objects, i.e., users and terminals, in the UPC environment is presented. Modifications of connection ...

6 Infosphere project: system support for information flow applications

Calton Pu, Karsten Schwan, Jonathan Walpole

March 2001 **ACM SIGMOD Record**, Volume 30 Issue 1

Full text available:  pdf (1.19 MB)


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We describe the Infosphere project, which is building the systems software support for information-driven applications such as digital libraries and electronic commerce. The main technical contribution is the Infopipe abstraction to support information flow with quality of service. Using building blocks such as program specialization, software feedback, domain-specific languages, and personalized information filtering, the Infopipe software generates code and manages resources to provide the spe ...

7 Design issues and alternatives for setting up real-time interactive Telelectures

Constantin Arapis, Dimitri Konstantas, Thomi Pilioura

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

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**Keywords:** ATM, Internet, multimedia, teleconferencing, teleeducation

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